



## Sewon-Vertex Heavy Industry LLP

### List for Filter Vessels

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Length		
1	SV-J001	2010	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter V-312	1	Gas Disposal Project AT GTU-4.5	Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA516 Gr.70 N	35	-29 / 152	762	16	2800	1.4m³	1.8
2	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-03A	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
3	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-03B	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
4	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-04A	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
5	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-04B	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
6	SV-J106	2013	Tengizchevroil LLP	Tengizchevroil LLP	Ferst & Second GAC Vessel 77-2013	8	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.50 barg / NIL	45	3300	10	3750	41.49m³	8.5
7	SV-J-128	2014	KPJV Limited	TCO	Horizontal Basket Filter	2	FGP	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2013	SA333 Gr.6	16 bar	-40 / 75	255	9.27	994	0.4 m³	160 kg
8	SV-J-212	2016	Tengizchevroil LLP	Tengizchevroil LLP	High Pressure Sour Gas Coalescing Filter - 62-F-314B	1	SGP Filter F314 Upgrade Project	Tengiz, Kazakhstan	ASME VIII Div.1 Ed. 2001 Add 02 / GOST 14249-89	SA516 Gr.70N	75 / - 0.5 bar.g	-0.256410256	2400	73	6336	49m³	35.1



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											Pressure	Temp.	Inner Dia	Thk	Length		
1	SV-J001	2010	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter V-312	1	Gas Disposal Project AT GTU-4.5	Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA516 Gr.70 N	35	-29 / 152	762	16	2800	1.4m³	1.8
2	SV-J004	2011	JSC "OGCC KazStroyService"	JSC "OGCC KazStroyService"	Gas Treatment Plant of Kozhasai oilfield	1	10m³ Drinking Water Tank	Kazakhstan	CT AO 40329313-02-2007	09G2S-12 GOST 5520	FULL OF WATER	45	1600	6	5090	10m³	2.4
3	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-03A	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
4	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-03B	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
5	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-04A	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
6	SV-J007	2011	Peerless Europe Limited	Peerless Europe Limited	Vertical Gas Filter 24-CB-04B	1	Sarybulak Gas Fields Development	Sarybulak Gas Field, Kazakhstan	ASME SEC VIII DIV I Ed 2010	SA333 GR.6	40 / F.V	65	500	16	2250	4.5m³	1.1
7	SV-J023	2011	Si Bu	Si Bu	Air Reciever	1	Air Reciever	Mangystau Region, Kazakhstan	ASME SEC VIII DIV I Ed 2010	09G2S-12	1.5	100	1200	12	2000	2.8m³	1.5
8	SV-J014-01	2011	Tengizchevroil LLP	Tengizchevroil LLP	Melter Tank X-600-T-614	1	Sulfur Expansion Project	Tengiz, Kazakhstan	API 620, API 650	SA516 Gr.70 N	0.07	-40 / 150	3368	16	3660	39.5m³	16
9	SV-J014-02	2011	Tengizchevroil LLP	Tengizchevroil LLP	Product Tank X-600-T-615	1	Sulfur Expansion Project	Tengiz, Kazakhstan	API SPEC. 650	SA516 Gr.70 N	0.07	-40 / 150	5464	18	3050	76m³	25
10	SV-J034-01-1	2011	BozachiTransKurylys Limited	BozachiTransKurylys Limited	Storage Tank TY 3683-101-00217298-98	2	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-12	1.6	-40 / 20	3000	16	12420	100m³	18
11	SV-J034-01-2	2011	BozachiTransKurylys Limited	BozachiTransKurylys Limited	Storage Tank TY 3683-101-00217298-98	2	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-12	1.6	-40 / 20	3000	16	12415	100m³	18
12	SV-J034-02	2011	BozachiTransKurylys Limited	BozachiTransKurylys Limited	Drain Tank EF125-2400-1-1	1	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	ST3PS	70	-20 / 100	2400	8	5195	25m³	3.2
13	SV-J034-03	2011	BozachiTransKurylys Limited	BozachiTransKurylys Limited	Storage Tank TY 3683-101-00217298-98	2	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-12	1.6	-40 / 200	3000	16	12420	100m³	18
14	SV-J037-01	2011	Halliburton	Halliburton	Storage Tank	1	---	Kazakhstan	CT AO 40329313-02-2007	ST3PS	ATM	AMB.	3680	10	10650	90m³	0.8
15	SV-J037-02	2011	Halliburton	Halliburton	Storage Tank	1	---	Kazakhstan	CT AO 40329313-02-2007	ST3PS	ATM	AMB.	3700	10	10650	90m³	0.8
16	SV-J052-01	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Three Phase Separator V-311	1	Dunga Field Development	Dunga field, Kazakhstan	ASME SEC VIII DIV I Ed 2027	09G2S-8	1.6(16.0) / FV	-29 / 93	2400	14	11100	50m³	18
17	SV-J052-02A	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Wax Mobilization Vessel V-98001A	1	Dunga Field Development	Dunga field, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	09G2S-8	8.0 / 1.0	-29 / 130	2400	16	13200	61m³	18
18	SV-J052-02B	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Wax Mobilization Vessel V-98001B	1	Dunga Field Development	Dunga field, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	09G2S-8	1.6(16.0) / FV	-29 / 130	2400	16	13200	61m³	18
19	SV-J052-03	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Flare KO Drum V-98003	1	Dunga Field Development	Dunga field, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	09G2S-8	0.6(6.0) / FV	-29 / 130	2200	12	9600	14m³	10
20	SV-J052-04	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Open Drain Tank T-16301	1	Dunga Field Development	Dunga field, Kazakhstan	UL 58	09G2S-8	70	-29 / 100	2000	8	2400	8m³	3
21	SV-J052	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Open Drain Tank T-99002	1	Dunga Field Development	Dunga field, Kazakhstan	UL 58	09G2S-8	70	-29 / 100	2000	8	2400	8m³	3
22	SV-J052	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Open Drain Tank T-98005	1	Dunga Field Development	Dunga field, Kazakhstan	UL 58	09G2S-8	70	-29 / 100	2000	8	2400	8m³	3
23	SV-J052	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Closed Drain Tank T-99001	1	Dunga Field Development	Dunga field, Kazakhstan	UL 58	09G2S-8	70	-29 / 100	2000	8	2400	8m³	3
24	SV-J052	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Closed Drain Tank T-98004	1	Dunga Field Development	Dunga field, Kazakhstan	UL 58	09G2S-8	70	-29 / 100	2000	8	2400	8m³	3
25	SV-J059	2012	Karachaganak Petroleum Operating B.V.	Karachaganak Petroleum Operating B.V.	Condensate Splitter Reboiler	2	Karachaganak Field Development	West Kazakhstan Region, Kazakhstan	ASME SEC VIII DIV I	SA516 Gr.70 N	7 / F.V	255	1070	8	6000	6m³	12
26	SV-J061-01	2012	Buzachi Operating Limited	Buzachi Operating Limited	Storage Tank	1	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S	0.69	-40 / 100	3000	12	13110	100m³	16
27	SV-J061-02	2012	Buzachi Operating Limited	Buzachi Operating Limited	Storage Tank	2	---	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	1.6	-29 / 20	3400	18	19600	200m³	34
28	SV-J067	2012	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Separator	1	Dunga Field Development	Dunga field, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	1.4	-40 / 60	2000	12	8500	25m³	6
29	SV-J069-01	2012	Compra Energy S.A.	Compra Energy S.A.	Closed Drain Tank T-750	1	The Gas Lift Compression Project	Guneshi field, Azerbaijan	ASME SEC VIII DIV I	SA516 Gr.70 N	0.65 / 6.5	85	1500	10	3100	7m³	1.6
30	SV-J069-02	2012	Compra Energy S.A.	Compra Energy S.A.	Knockout Drum V-500	1	The Gas Lift Compression Project	Guneshi field, Azerbaijan	ASME SEC VIII DIV I	SA516 Gr.70 N	0.5 / 5	55	2000	10	6000	22m³	4
31	SV-J069-03	2012	Compra Energy S.A.	Compra Energy S.A.	Air Receiver V-581	1	The Gas Lift Compression Project	Guneshi field, Azerbaijan	ASME SEC VIII DIV I	SA516 Gr.70 N	1.3	80	1800	16	6000	18m³	5.3
32	SV-J053-01	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	Clean & Spent oil Tank P0021-VE-C004A/B	2	CPC-Tengiz Pump Station	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-33 / 150	1900	6	2048	5m³	2
33	SV-J053-02	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0021-VE-A002A	1	CPC-Tengiz Pump Station	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	3000	10	10500	75m³	18
34	SV-J053-03	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0021-VE-A002B	1	CPC-Tengiz Pump Station	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	9.7
35	SV-J053-04	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0021-VE-A002C	1	CPC-Tengiz Pump Station	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	9.7
36	SV-J053-05	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-C004	1	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	9
37	SV-J053-06	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-A0011 ~ 0014	4	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	3200	10	12000	100m³	21



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											Pressure	Temp.	Inner Dia	Thk	Length		
38	SV-J053-07	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-E003	1	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	9.7
39	SV-J053-08	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-A017	1	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	10
40	SV-J053-09	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-A016A	1	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	3000	10	10500	75m³	18
41	SV-J053-10	2012	JSC "OGCC KazStroyService"	JSC "Caspian Pipeline Consortium-K"	UG Drain Tank P0022-VE-A016B,C	1	CPC-Atyrau Pump Station Booster Pump Station Lease Automatic Custody Transfer Unit Lact 22- PK-A009-010	Atyrau Region, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07	-38 / 150	2400	8	8400	40m³	10
42	SV-J072-01	2012	JSC "Mechstroyservice"	JV «Caspi Bitum» LLP	Air Receiver	1	Aktau Bitumen Plant	Aktau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.9	-40 / 120	3000	12	10120	80m³	13
43	SV-J072-02	2012	JSC "Mechstroyservice"	JV «Caspi Bitum» LLP	Air Receiver	1	Aktau Bitumen Plant	Aktau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.9	-40 / 120	3000	12	10120	81m³	13
44	SV-J072-03	2012	JSC "Mechstroyservice"	JV «Caspi Bitum» LLP	Air Receiver	1	Aktau Bitumen Plant	Aktau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.9	-40 / 120	1200	10	2430	3.2m³	1
45	SV-J081-01	2012	WorleyParsons Limited	North Caspian Operating Company	Rotoformer Heating Medium Expansion Tank M2-334-VB-002	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	10	-36 / 175	1000	10	4400	2.5m³	2
46	SV-J081-02	2012	WorleyParsons Limited	North Caspian Operating Company	Heating Medium Preparation Tank M2-410-VB-003	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5 / F.V	-36 / 75	1500	10	2990	4.45m³	2.3
47	SV-J081-03	2012	WorleyParsons Limited	North Caspian Operating Company	Heating Medium Expansion Tank M2-410-VB-001	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	10 / F.V	-36 / 170	3200	16	12050	73m³	26
48	SV-J081-04	2012	WorleyParsons Limited	North Caspian Operating Company	Fuel Gas Water Drain Drum M2-420-VA-001	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5 / F.V	-36 / 150	1200	12	2000	2.8m³	2
49	SV-J081-05	2012	WorleyParsons Limited	North Caspian Operating Company	Diesel Closed Drain Drum M2-430-VA-001	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5 / F.V	-36 / 60	1800	12	2300	7.6m³	3.3
50	SV-J081-06	2012	WorleyParsons Limited	North Caspian Operating Company	Utility Air Receiver M2-460-VA-001	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	10	-36 / 75	2000	12	5600	17.4m³	6
51	SV-J081-07	2012	WorleyParsons Limited	North Caspian Operating Company	Instrument Air Receiver M2-460-VA-002	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	10	-36 / 75	1600	12	5900	9.92m³	4.4
52	SV-J081-08	2012	WorleyParsons Limited	North Caspian Operating Company	Instrument Air Receiver M2-460-VA-003	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	10	-36 / 75	1600	12	5900	9.92m³	4.4
53	SV-J081-09	2012	WorleyParsons Limited	North Caspian Operating Company	Closed Diesel Drain Drum M2-480-VA-003	1	---	Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5 / F.V	-36 / 60	1800	10	4800	13.5m³	4
54	SV-J088	2012	Compr Energy S.A.	Compr Energy S.A.	Fresh Glycol Storage Tank T-110	1	The Gas Lift Compression Project	Guneshi field, Azerbaijan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	0.2	60	1200	8	7700	2.2m³	1.4
55	SV-J086	2012	Compr Energy S.A.	Compr Energy S.A.	Fuel Diesel Storage Tank T-002	1	The Gas Lift Compression Project	Guneshi field, Azerbaijan	ENGINEERING PRACTICE	SA516 Gr.70 N	ATM.	70	2650	10	1750	10m³	3
56	SV-J102-01	2013	JSC "OGCC KazStroyService"	"Beineu-Shymkent Gas Pipeline" LLP	Dump Tank DT-801	1	Beineu-Bozoy-Shymkent Gas Pipeline Project Engineering, Procurement & Construction for Line Part	Mangystau Region, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	1.6 / 16	40	1600	16	5000	10m³	6
57	SV-J102-02	2013	JSC "OGCC KazStroyService"	"Beineu-Shymkent Gas Pipeline" LLP	Dump Tank DT-802	1	Beineu-Bozoy-Shymkent Gas Pipeline Project Engineering, Procurement & Construction for Line Part	Mangystau Region, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	1.6 / 16	40	1600	13	5000	10m³	5
58	SV-J102-03	2013	JSC "OGCC KazStroyService"	"Beineu-Shymkent Gas Pipeline" LLP	Diesel Tank SP-141 & SP-142	1	Beineu-Bozoy-Shymkent Gas Pipeline Project Engineering, Procurement & Construction for Line Part	Mangystau Region, Kazakhstan	CT AO 40329313-02-2007	SA516 Gr.70 N	0.07 / 0.7	49	2000	12	3500	13.42m³	6
59	SV-J104-01	2013	Buzachi Operating Limited	Buzachi Operating Limited	Underground Vessel ЕПП-8-2000-2-1	2	---	Mangystau Region, Kazakhstan	GOST 17032-2010	09G2S-12	0.07	-31 / 100	1900	8	2700	8m³	3.3
60	SV-J104-02	2013	Buzachi Operating Limited	Buzachi Operating Limited	Underground Vessel ЕПП-12,5-2000-2-1	1	---	Mangystau Region, Kazakhstan	GOST 17032-2010	09G2S-12	0.07	-31 / 100	1900	8	4200	12.5m³	4
61	SV-J104-03	2013	Buzachi Operating Limited	Buzachi Operating Limited	Underground Vessel ЕПП-100-3200-2-1	1	---	Mangystau Region, Kazakhstan	GOST 17032-2010	09G2S-12	0.07	-31 / 100	3200	10	12500	100m³	12
62	SV-J106	2013	Tengizchevroil LLP	Tengizchevroil LLP	Ferst & Second GAC Vessel 77-2013	8	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.50 barg / NIL	45	3300	10	3750	41.49m³	8.5
63	SV-J108	2013	Tengizchevroil LLP	Tengizchevroil LLP	Sour Water Flash Drum 62-F-808	1	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.60 N	6 / F.V	156	2400	16	7200	36.19m³	11
64	SV-J109	2013	Tengizchevroil LLP	Tengizchevroil LLP	Sour Water Stripper Overhead KO Drum 62-F-809	1	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA240 TP.316 L	6 / F.V	230	1700	12	5100	12.86m³	5
66	SV-J110-01	2013	JSC "OGCC KazStroyService"	Kazakhstan-China Pipeline LLP	Underground Tank ST-08102	1	China Crude Oil Pipeline Project	Kazakhstan	GOST 17032-2010	09G2S-8	ATM	0-70	2000	8	3430	12.5m³	4
67	SV-J110-02	2013	JSC "OGCC KazStroyService"	Kazakhstan-China Pipeline LLP	Underground Tank ST-08001/2/3	3	China Crude Oil Pipeline Project	Kazakhstan	GOST 17032-2010	09G2S-8	ATM	0-70	2000	8	2580	10m³	5
68	SV-J110-03	2013	JSC "OGCC KazStroyService"	Kazakhstan-China Pipeline LLP	Aboveground Tank Tank-01/02	2	China Crude Oil Pipeline Project	Kazakhstan	API 650	09G2S-8	ATM	-48 / 60	2200	6	3000	10m³	1.4
69	SV-J110-04	2013	JSC "OGCC KazStroyService"	Kazakhstan-China Pipeline LLP	Underground Tank Tank-01/02	2	China Crude Oil Pipeline Project	Kazakhstan	GOST 17032-2010	09G2S-8	0.04	90	1400	6	2000	3m³	1.2
70	SV-J112-01	2013	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Vent Pipe 1004-C-001	1	Deep Oil Conversion Complex of Atyrau Refinery	Atyrau, Kazakhstan	GOST 17032-2010	09G2S-8 GOST 5520-79	ATM	55	800	16	30000	7.8m³	7
71	SV-J112-02	2013	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Vent Pipe 1007-C-001	1	Deep Oil Conversion Complex of Atyrau Refinery	Atyrau, Kazakhstan	GOST 17032-2010	09G2S-8 GOST 5520-79	ATM	55	800	16	30000	7.8m³	7
72	SV-J112-03	2013	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Vent Pipe 1021-C-001	1	Deep Oil Conversion Complex of Atyrau Refinery	Atyrau, Kazakhstan	GOST 17032-2010	09G2S-8 GOST 5520-79	ATM	55	800	16	30000	7.8m³	7
73	SV-J115	2013	WorleyParsons Limited	WorleyParsons Limited	Essential Generator Day Tanks M2-480-VA-009A	1	Eskene West Rail Project	Mangystau Region, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5	-36 / 150	1900	10	4000	12m³	4
74	SV-J115	2013	WorleyParsons Limited	WorleyParsons Limited	Essential Generator Day Tanks M2-480-VA-009B	1	Eskene West Rail Project	Mangystau Region, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	3.5	-36 / 150	1900	10	4000	12m³	4



## Sewon-Vertex Heavy Industry LLP

### List for Pressure Vessels

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Length		
75	SV-J-121	2013	Burren Resources Petroleum Limited	Burren Resources Petroleum Limited	LP Flare Knock Out Drum	1	Burren Oil Field Development	Ashgabat, Turkmenistan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.70 N	5 / FV	-22 / 145	3700	16	12000	143m <sup>3</sup>	27.5
76	SV-J-129	2014	Ansagan Petroleum LLP	Ansagan Petroleum LLP	Gas Separator GS1-2.5-600-1-I	1	---	Mangystau Region, Kazakhstan	GOST R 52630-2006	09G2S-12	2.5 Mpa	-30 / 100	600	8	2000	0.27m <sup>3</sup>	0.85
77	SV-J-129	2014	Ansagan Petroleum LLP	Ansagan Petroleum LLP	Oil and Gas Separator NGSV-2-1.0-2400-1-I	1	---	Mangystau Region, Kazakhstan	GOST R 52630-2006	09G2S-12	1 Mpa	-30 / 100	2400	10	11100	50m <sup>3</sup>	10.45
78	SV-J-129	2014	Ansagan Petroleum LLP	Ansagan Petroleum LLP	End Separation Unit KSU-6,3-I	1	---	Mangystau Region, Kazakhstan	GOST R 52630-2006	09G2S-12	0.6 Mpa	-30 / 100	1200	8	5500	6.3m <sup>3</sup>	2.75
79	SV-J-129	2014	Ansagan Petroleum LLP	Ansagan Petroleum LLP	Horizontal Tank OG-100-1-I	2	---	Mangystau Region, Kazakhstan	GOST R 52630-2006	16GS	2.5 Mpa	-30 / 100	3000	8	11600	0.27m <sup>3</sup>	0.85
80	SV-J-130	2014	JSC "OGCC KazStroyService"	"Asia Gas Pipeline" LLP	Oil Product Storage Tank	6	CPC-Atyrau Pump Station	Atyrau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07 Mpa	-38 / 150	1900	6	2050	5m <sup>3</sup>	1.85
81	SV-J-130	2014	JSC "OGCC KazStroyService"	"Asia Gas Pipeline" LLP	Clean & Spent oil Tank	4	CPC-Atyrau Pump Station	Atyrau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07 Mpa	-38 / 150	1900	6	2050	5m <sup>3</sup>	1.85
82	SV-J-130	2014	JSC "OGCC KazStroyService"	"Asia Gas Pipeline" LLP	Oil Wave Supression UG Double Wall Tank	8	CPC-Atyrau Pump Station	Atyrau, Kazakhstan	CT AO 40329313-02-2007	09G2S-8	0.07 Mpa	-38 / 120	3200 / 3404	10 / 8	12000 / 12132	100m <sup>3</sup>	21.4
83	SV-J-141	2014	JSC "Montazhspestroy"	JSC "Montazhspestroy"	Underground Tank-8m2	2	---	Aktau, Kazakhstan	GOST R 52630-2006	09G2S-12	0.07 Mpa	-26 / +43	2000	8	2400	8m <sup>3</sup>	2.65
84	SV-J-143	2014	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Vent Stack	1	Deep Oil Conversion Complex of Atyrau Refinery	Atyrau, Kazakhstan	GOST R 52630-2006	09G2S-8	ATM	-38 / +43	800 / 600 / 406	16	4850 / 11630 / 10370	7.8m <sup>3</sup>	7.36
85	SV-J-151	2014	JSC "OGCC KazStroyService"	"Asia Gas Pipeline" LLP	Drain Tnaks	4	Increase in Capacity of the Kazakhstan-China Gas Pipeline Compressor Stations Part SCS-1, SCS-3, SCS-5, CS-7.	Compressor Station - 7	GOST R 52630-2006	09G2S-8	1.6 / 16 MPa	-38 / +65	1600	14	5000	10m <sup>3</sup>	6.2
86	SV-J-152	2014	Tengizchevroil LLP	Tengizchevroil LLP	Neutralization Tank	1	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME BPV code Sec.VIII Div.1 Ed.2013	SA 516 Gr.70	F.V / 3.5 barg	-40 / +60	3700	14	8700	93m <sup>3</sup>	21.0
87	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Condensate Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	2 / FV kg/cm2	160/160	1800	12	3600	10.6m <sup>3</sup>	3.8
88	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Flare Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	4 / -FV kg/cm2	275 / -	3200	14	6400	60m <sup>3</sup>	12.7
89	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Reactor Coolant Surge Tank	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	6.6 / FV kg/cm2	130 / 130	2200	14	4800	21m <sup>3</sup>	5.8
90	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Zg Catalyst Day Tank	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	10 / FV kg/cm2	85 / 85	1300	10	1400	2.4m <sup>3</sup>	1.4
91	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Catalyst Day Tank	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	10 / HV kg/cm2	100 / 100	1500	10	2600	5.8m <sup>3</sup>	2.1
92	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Catalyst Supply Tank	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	17.4 / HV kg/cm2	100 / 100	1600	14	2400	5.8m <sup>3</sup>	3.0
93	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Catalyst / Additive Ko Pot	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	4 / FV kg/cm2	275 / 275	1500	10	2500	5.3m <sup>3</sup>	2.4
94	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	High Pressure Separator Discharge Vessel	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	12.3 / HV kg/cm2	150 / 150	1200	10	1400	2.5m <sup>3</sup>	1.5
95	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Additive Feed Tank	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	10 / FV kg/cm2	100 / 100	1100	10	2500	2.7m <sup>3</sup>	1.6
96	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	LPSR Condensate Separator	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	4.1 / FV kg/cm2	100 / 100	2000	12	5000	17.8m <sup>3</sup>	5.0
97	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	LP Fuel Gas KO Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	7.5 / - kg/cm2	85 / -	1600	10	3000	7.1m <sup>3</sup>	3.5
98	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	HP Fuel Gas KO Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	40 / - kg/cm2	85 / -	1000	22	2600	2.3m <sup>3</sup>	3.9
99	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Ethylene Vaporizer Condensate Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	7 / FV kg/cm2	205 / 205	1000	10	3000	2.6m <sup>3</sup>	1.6
100	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Offsite Process Sewer Sump Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	3.5 / FV kg/cm2	85 / 150	1500	12	4500	8.8m <sup>3</sup>	5.5
101	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Loading Area Process Sewer Sump Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	3.5 / FV kg/cm2	85 / 150	1500	12	4500	8.8m <sup>3</sup>	5.5
102	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Chrome Catalyst Tote Bins and Carrier	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	10 / - kg/cm2	150 / -	1300	8	1400	2.3m <sup>3</sup>	1.1
103	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Water Catalyst Bin ( On mobile carrier)	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	10 / FV kg/cm2	185 / 185	1500	10	1850	4.2m <sup>3</sup>	1.5
104	SV-J-153	2014	Hyundai Engineering Co.LTD	Türkmengaz	Steam Condensate Drum	1	Ethane Cracker and PE PP Plant	Kiyarly, Turkmenistan	ASME SEC VIII DIV I Ed 2013	SA516 Gr.70 N	3.5 / FV kg/cm2	205 / 205	1500	12	5000	9.7m <sup>3</sup>	3.9
105	SV-J- 154	2014	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Nitrogen Heat Exchanger	1	Deep Oil Conversion Complex of Atyrau Refinery	Atyrau, Kazakhstan	TU 3612-123-00220302-01 / ASME SEC VIII DIV I	SA333 Gr.6	0.75 / 078 Mpa	60 / 220	325	Sch.60	3690	13.2m <sup>3</sup>	1.4
106	SV-J- 158	2014	JSC "OGCC KazStroyService"	"Asia Gas Pipeline" LLP	Air Receiver	8	Increase in Capacity of the Kazakhstan-China Gas Pipeline Compressor Stations Part SCS-1, SCS-3, SCS-5.	Compressor Station - 7	ASME BPV code Sec.VIII Div.1 Ed.2013	SA516 Gr.60	1.6 Mpa	-41 / +50	2500	20	7300	13.2m <sup>3</sup>	14.0
107	SV-J-168	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Reticulate Gas Separator	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	ГОСТ Р 52630-2012	SA516 Gr.70 N	0.6 MPa	-38 / 160	600	8	2000	0.27m <sup>3</sup>	0.85
108	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Splitter Reflux Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	ГОСТ Р 52857.01-12-2007, IN -042	SA516M Gr.485+S5	0.46 / -0.1 MPa	91/91	2400	14	9620	47.6m <sup>3</sup>	12.5
109	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Instrument Air Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	ГОСТ Р 52857.01-12-2007, IN -042	SA516M Gr.485+S5	0.9 MPa	200	2400	16	9920	48.86m <sup>3</sup>	16.6
110	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Feed Surge Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	ГОСТ Р 52857.01-12-2007, IN -042	SA516M Gr.485+S5	0.5 MPa	142	3000	10	7520	60.8m <sup>3</sup>	19.5
111	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Slop Oil Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	ГОСТ Р 52857.01-12-2007, IN -042	SA516M Gr.485+S5	0.35 / -0.05 MPa	200/80	2400	14	8520	42.52m <sup>3</sup>	11





## Sewon-Vertex Heavy Industry LLP

### List for Pressure Vessels

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Length		
112	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Instrument Air Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.88 MPa	200	3000	16	9720	76.35m³	20
113	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Shu Feed Surge Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.87 / -0.1 MPa	145/62	3400	18	13720	137.3m³	31.5
114	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Sour Gas Flare Knock-Out Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.6 / -0.05 MPa	100/46	1000	8	5950	4.97m³	2
115	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Lpg Recovery Durm	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	1.5 MPa	80	2200	16	6820	29.03m³	12
116	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Instrument Air Durm	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.88 MPa	200	3000	16	9720	76.35m³	21
117	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Flare Gas K.O. Drum I	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.35 MPa	200	2400	12	11920	58m³	15
118	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Regeneration Feed Surge Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.7 MPa	80	2400	10	9620	47.5m³	9
119	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Lp Condensate Flash Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	1.18 Mpa	203	1000	10	2000	0.7m³	1.2
120	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Tame Fractionator Reflux Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.79 / -0.1 MPa	102/102	2400	14	9620	47.5m³	13
121	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Methanol/Water Column Feed Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.7 / -0.1 MPa	80/40	1200	10	4750	5.87m³	2.6
122	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Deisohexanizer Receiver	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, 3-11-07	SA516M Gr.485+S5	0.55 / -0.1 MPa	120/49	3000	16	7220	58.68m³	14
123	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Hot Oil Separator	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, 3-11-07	SA516M Gr.485+S5	0.35 MPa	230	3000	12	10720	94.02m³	16
124	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Hydrocarbons Discharge Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, 3-11-07	SA516M Gr.485+S5	0.4 MPa	410	3000	22	8520	67.86m³	22
125	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Fule Gas Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.6 MPa	100	1200	10	2950	3.8m³	1.5
126	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Debutanizer Reflux Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	1.5 / -0.1 MPa	82 / 80	2400	18	9620	47.5m³	17.5
127	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Waste Discharge Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, 3-11-07	SA516M Gr.485+S5	0.7 MPa	220	2400	14	5870	30.54m³	8
128	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Pneumatic Shut-Off Valve Air Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	1 MPa	200	2400	14	4150	22.9m³	8.3
129	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Light Waste Oil Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.35 MPa	200	2400	14	8520	42.52m³	11
130	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Waste Oil Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.35 / -0.1 MPa	200 / 80	2400	14	8520	42.8m³	14
131	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Dea Drain Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.35 MPa	200	2000	12	3750	14.04m³	4.2
132	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Instrument Air Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.9 MPa	200	2400	14	4120	22.62m³	8.2
133	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Air Purification Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.9 MPa	200	2400	12	9920	48.9m³	12.5
134	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Flare Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.35 MPa	200	2400	12	9620	47.5m³	10
135	SV-J-175	2015	Marubeni Corporation	Atyrau Oil Refinery Liability Partnership (ANPZ)	Coolant Drum	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52857.01~12-2007, IN -042	SA516M Gr.485+S5	0.4 MPa	70	1200	8	2950	3.84m³	1.2
136	SV-J-176	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Gas Vent Stack FL-5901	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	ATM	-38 / 43	800 / 600 / 406	16	4850 / 11630 / 10370	7.8m³	8.5
137	SV-J-176	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Gas Vent Stack FL-5101	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	ATM	-38 / 43	800 / 600 / 406	16	4850 / 11630 / 10370	7.8m³	8.5
138	SV-J-177	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Drain tank underground D-5904	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	0.07 MPa	88 / -33	3000	10	9000	75m³	13
139	SV-J-177	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Drain tank underground D-5107	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	0.07 MPa	100 / -33	2000	8	3800	12.5m³	4.3
140	SV-J-177	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Drain tank underground D-5110	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	0.07 MPa	100 / -33	2000	8	3800	12.5m³	4.6
141	SV-J-177	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Drain tank underground D-7901	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	0.07 MPa	88 / -33	3000	10	10000	75m³	13.1
142	SV-J-177	2015	JSC "OGCC KazStroyService"	Atyrau Oil Refinery Liability Partnership (ANPZ)	Drain tank underground D-8902	1	Deep Oil Conversion Complex of Atyrau Oil Refinery Phase - 3	Atyrau, Kazakhstan	FOCT P 52630-2006	09G2S - 12	0.07 MPa	224	2400	8	5200	25m³	5.6
143	SV-J-187	2015	Bechtel Limited	Tengizchevroil LLP	Dry Instrument Air Receiver	2	Crude Shipment Capacity	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2013	SA 516 Gr.70N	11 barg	85	2500	14	3500	21.3m³	7.3
144	SV-J-187	2015	Bechtel Limited	Tengizchevroil LLP	Closed Drain Sump Vessel	1	Crude Shipment Capacity	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2013	SA 516 Gr.70N	5 barg / FV	90 / -40	1800	16	6250	18m³	14
145	SV-J-193	2015	KPJV Limited	Tengizchevroil LLP	Offspec Tank Closed Drain Vessel	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.	SA 516 Gr.70	3.5 / 1 bar.g	-40 / 75	1300	22 / 12	3900	5.8m³	3.8
146	SV-J-193	2015	KPJV Limited	Tengizchevroil LLP	CTF HC Closed Drain Drum	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.	SA 516 Gr.70	3.5 / 1 bar.g	-40 / 80	2100	28 / 14	6300	24m³	12.7
147	SV-J-193	2015	KPJV Limited	Tengizchevroil LLP	CPC HC Closed Drain Drum	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.	SA 516 Gr.70	3.5 / 1 bar.g	-40 / 80	1300	20 / 12	3200	4.8m³	4.1
148	SV-J-204	2016	Tengizchevroil LLP	Tengizchevroil LLP	Surface Diesel Double Wall Tank	1	TRV Water Treatment Plant	Tengiz, Kazakhstan	G-4200-D-5003, GOST 17032-2010, FPM-SU-5182-TCO, GEN-SU-5209-TCO	SA 240 Gr.304L	VTA	-40 / +60	800	6	1050	0.25m³	0-Jan



## Sewon-Vertex Heavy Industry LLP

### List for Pressure Vessels

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Length		
149	SV-J-208	2016	Zhaikmunai LLP	Zhaikmunai LLP	Lube Oil Drain Tank - TK-3813, 3814 & 3815	3	Complex Gas Treatment Plant (CGTP-3)	Uralsk, Kazakhstan	GOST R 52630-2012	SA 516 Gr.70	0.07 Mpag	-43/+100	1600	12	2400	5m³	3.0
150	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Compressed Air Receiver - E - 3201	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	1.2 Mpa	-37 / 70	4800	20	12000	248m³	41.2
151	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Instrument Air Receiver - E - 3510	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	1.2 Mpa	-37 / 70	3900	16	9300	128m³	20.5
152	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Instrument Air Drum - C - 1020	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	1.2 Mpa	-37 / 120	5000	24	13500	298m³	56.5
153	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Instrument Air Drum - C - 1110	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	1.2 Mpa	-37 / 120	3500	18	10500	113m³	23.5
154	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Compressed Air Receiver - E - 1101	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	0.53 / -0.1 MPa	-37 / 120 / 60	3400	16	9800	100m³	20.7
155	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Instrument Air Receiver - E - 3503	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	0.35 / -0.1 MPa	-37 / 150	3200	16	7000	66.5m³	13.9
156	SV-J-212	2016	Tengizchevroil LLP	Tengizchevroil LLP	High Pressure Sour Gas Coalescing Filter - 62-F-314B	1	SGP Filter F314 Upgrade Project	Tengiz, Kazakhstan	ASME VIII Div.1 Ed. 2001 Add 02 / GOST 14249-89	SA516 Gr.70N	75 / - 0.5 bar.g	-0.256410256	2400	73	6336	49m³	35.1
157	SV-J-217	2016	Zhaikmunai LLP	Zhaikmunai LLP	Drain Tank - ЕЕП 25-2400-1-2-T-K	1	Chinarevskoe oil, gas and condensate field Oil-2 treatment and demereaptanization	Chinarevo, West Kazakhstan	GOST-R 52630-2006	09G2S GOST 5520-79	1.6 MPa	by Client	2400	8	5200	25m³	5.6
158	SV-J-240	2018	KPJV Limited	Tengizchevroil LLP	Hydocarbon Closed Drain Vessel - 47-F-1012. 1/2	2	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.1 Ed. 2017 / GOST 14249-89	SA 240 Gr.316L	7 barg	- 107 / 102	1900	10 & 28	4800	17.2m³	8.6
159	SV-J-240	2018	KPJV Limited	Tengizchevroil LLP	Hydocarbon Closed Drain Vessel - 58-F-1005	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.1 Ed. 2017 / GOST 14249-89	SA 240 Gr.316L	7 barg	- 120 / 102	3000	13	7600	63.1m³	21.2
160	SV-J-240	2018	KPJV Limited	Tengizchevroil LLP	Flare Knock-Out Drum - 58-F-1015	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	ASME VIII Div.1 Ed. 2017 / GOST 14249-89	SA 240 Gr.316L	7 barg	- 120 / 102	3200	13	9100	82.8m³	21.1
161	SV-J-243	2018	CASBI-BITUM	NJPEC	HEAT CARRIER OIL EXPANSION TANK - V-1204	1	NJPEC	AKATU, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358 GOST R 52630-2012/IN-42.0 GOST R 52857 0.1-12-2007	12X18N10T- GOST 5632-72	ATM	250/230	1600	8	3969	7.2m³	2.17
162	SV-J-247	2018	Maersk Oil Kazakhstan GmbH	TOTAL E&P DUNGA GMBH	PRODUCED WATER DRAIN TANK -: DUWTI-T-050-0001	1	DUNGA FIELD DEVELOPMENT FDPA	DUNGA SITE, Kazakhstan	ASME VIII DIV. 1 + RoK Regulations RoK Regulations - Category 1 RoK Regulations (GGTN)	SA 516 GR 70N	0.7/FV	- 40 / 160	3000	10	9250	57.7m³	8.86
163	SV-J-248	2018	Maersk Oil Kazakhstan GmbH	TOTAL E&P DUNGA GMBH	HP FLARE KO DRUM DUCGF-V-040-0001	1	DUNGA FIELD DEVELOPMENT FDPA	DUNGA SITE, Kazakhstan	ASME VIII DIV. 1 + RoK Regulations RoK Regulations - Category 1 RoK Regulations (GGTN)	SA 516 GR 70N	10.0 / FV	- 40 / 160	1500	14	7130	10.5m³	5
164	SV-J-249	2018	Maersk Oil Kazakhstan GmbH	TOTAL E&P DUNGA GMBH	CHEMICAL INJECTION CLOSE DRAIN TANK- DUWTI-T-050-003	1	DUNGA FIELD DEVELOPMENT FDPA	DUNGA SITE, Kazakhstan	GOST R 52630-2012/MOTS-05	SA 516 GR 70N	0.7	- 29 / 160	2000	10	3070	8m³	3.5
165	SV-J250	2018	ISKER CONSORTIUM LLP	Tengizchevroil LLP	DIESEL FUEL HEATER - E-7605-52	1	Future Growth Project / Welhead Pressure Management Project	ATRAYU, Kazakhstan	ASME VIII DIV. 1	SA 240M TP 316L	6	- 40 / 85	960	6	3920	2.169m³	1.4
166	SV-J250	2019	ISKER CONSORTIUM LLP	Tengizchevroil LLP	DIESEL FUEL HEATER - E-7606-52	1	Future Growth Project / Welhead Pressure Management Project	ATRAYU, Kazakhstan	ASME VIII DIV. 1	SA 240M TP 316L	6	- 40 / 70	700	8	2995	0.8m³	0.7
167	SV-J252	2019	ISKER CONSORTIUM LLP	Tengizchevroil LLP	DIESEL FUEL TANK ( T-7611-52, T-7612-52, T-7613-52, T-7614-52, T-7609-52)	5	TCO-NEW CAMP- ON SHORE YARD	ATRAYU, Kazakhstan	TP-TC-032-2013+PK M.E.C NO 358/ GOST 34347-2017/ GOST-34233.01-12-2017	09G2S-8 GOST 5520-79	1	- 40 / 70	3000	10	13676	90m³	69
168	SV-J254	2019	Tengizchevroil LLP	Tengizchevroil LLP	UNDERGROUND DRAIN VESSEL - ITEM NO: 1F-161.1	1	KTL 1, F161.1 VESSEL REPLACEMENT	Tengiz, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N+HIC	5	- 40 / 160	1800	12	6428	17.31m³	8.4
169	SV-J267	2019	KPI INC.	CNCEC	INSTRUMENT AIR STORAGE TANK- 11-D-00031	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 60N	10	- 38 / 80	5000	28	28280	500m³	106.386
170	SV-J267	2019	KPI INC.	CNCEC	AIR RECEIVER- 12-D-93002	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N	10	- 38 / 80	5000	26	29310	522m³	103.087
171	SV-J267	2019	KPI INC.	CNCEC	NITROGEN RECEIVER - 84-D-11001A/B	2	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N	10	- 38 / 80	5000	26	24480	427m³	178.472
172	SV-J267	2019	KPI INC.	CNCEC	BACKUP FUEL TANK- 85-D-22201A/B	2	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N	0.4	- 38 / 85	3400	16	21618	190m³	68.762
173	SV-J268	2019	Zhaikmunai	Zhaikmunai	2ND STAGE SUCTION SCRUBBER (PV-02)	1	CHINAREVskoe oil, gas and condensate field	AKTAU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N	20.68	- 20 / 93.3	734 ID	14	3208	1.06m³	1.231
174	SV-J267	2020	KPI INC.	CNCEC	COLD FLAKE K.O. DRUM 11-D-00021	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 240 TPPE 304L	3.5	- 105/150	3000	12	9150	56.5m³	12.621
175	SV-J267	2020	KPI INC.	CNCEC	DEETHANIZER FEED DRUM- 11-D-20011	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 240 TPPE 304L	14.4	- 105/80	3000	28	14030	71.4m³	34.173
176	SV-J267	2020	KPI INC.	CNCEC	PURGE VESSEL 12-D-33002	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 240 TPPE 304L	6	- 38/120	3500	18	14616	90.5m³	29.129
177	SV-J267	2020	KPI INC.	CNCEC	DISCHARGE VESSEL- 12-D-43001	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 240 TPPE 304L	6	- 48/130	3200	16	12570	75.8m³	24.042
178	SV-J267	2020	KPI INC.	CNCEC	PURGE VESSEL 12-D-43002	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 240 TPPE 304L	6	- 38/120	3500	18	16276	104m³	32.654
179	SV-J267	2020	KPI INC.	CNCEC	GAS VENT - 81-X- 11101	1	INTERGRATED PETROCHEMICAL COMPLEX CONSTRUCTION IN ATRAYU REGION	ATRAYU, Kazakhstan	ASME VIII DIV. 1 ED 2017	SA 516 GR 70N	1	- 28/80	1000	10	30250	11m³	5.886



## Sewon-Vertex Heavy Industry LLP

### List for Columns

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Length		
1	SV-J107	2013	Tengizchevroil LLP	Tengizchevroil LLP	Sour Water Stripper 62-D-802	1	SGP Water Handling Upgrade	Tengiz, Kazakhstan	ASME SEC VIII DIV I Ed 2010+ADD.2011	SA516 Gr.60 N+HIC	6 / F.V	230	1700	14	18500	50m³	21
2	SV-J-211	2016	China Petroleum Technology and Development Corp.	Petro Kazakhstan Oil Products LLP	Light Cycle Oil Stripper - K – 1003	1	PKOP Shymkent Refinery Modernization and Revamping Project	Shymkent, Kazakhstan	TR-TS-032-2013-RoK-M.E.S No.358, GOST R 52630-2012/IN-42.0, GOST R 52857 0.1-12-2007	09G2S-8 GOST 5520-79	0.55 MPa	-37 / 265	1100	10	11800	11.6m³	6.1



## Sewon-Vertex Heavy Industry LLP

### List for Heat Exchangers

S.No.	Job.No.	Year	Client Name	Equipment Description	TEMA Type	Qty.	Project Description	Location	Design Code	Material		Design Pressure (bar)		Design Temp deg C		Surface Area m <sup>2</sup>	Weight in Ton
										Shell Side	Tube Side	Shell Side	Tube Side	Shell Side	Tube Side		
1	SV-J059	2012	Karachaganak Petroleum Operating BV	Condensate Splitter Reboiler	CHU-H	1	--	Kazakhstan	ASME SEC VIII DIV I Ed 2010	CS	CS	7 & FV	50 & FV	255	410	--	9.15
2	SV-J132	2014	Zhaikmunai	Fuel Gas Heater	AEU-H	1	Complex Gas Treatment unit (CGTU-3)	Kazakhstan	ASME SEC VIII DIV I Ed 203	CS	CS	12	17.2	251	190	4.29	0.7
3	SV-J154	2014	JSC "OGCC KazStroyService"	Nitrogen Heat Exchanger	AET-H	1	Deep Oil Conversion Complex of Atyrau Refinery	Kazakhstan	ASME SEC VIII DIV I Ed 2013	CS	CS	7.5	7.8	60	220	13.2	1.1
4	SV-J200	2016	Rominserv SRL	Stabilizer Net Gas Heater - Double Pipe Heat Exchanger	D-Pipe	1	Pavlodar Oil Chemistry Refinery Upgrading Project - Early Phase	Kazakhstan	ASME SEC VIII DIV I Ed 2013 & TEMA Class R + API 660	CS	CS	18.5	14.5 / FV	65	330	0.025/0.011	0.75
5	SV-J234	2017	Tengizchevroil	MDEA Reboiler	AKU (H)	1	FGP -Tengiz	Kazakhstan	ASME SEC VIII DIV I Ed 2015 & TEMA Class R + API 660	CS-HIC	CS	6	6	165	210	18.2	14.2





## Sewon-Vertex Heavy Industry LLP

### List for Skid Packages

S.No.	Job.No.	Year	Client Name	End User Name	Package Description	Qty.	Project Description	Location
1	SV-J124	2013	Maersk Oil Kazakhstan GmbH	Maersk Oil Kazakhstan GmbH	Hot Water Maker Packaged Unit	1 No.	Dunga Field Development	Dunga field, Kazakhstan
2	SV-J131	2014	ZhaikMunai LLP	ZhaikMunai LLP	Methonal Injection Packaged Unit	1 No.	Zhaikmunai CGTU-3	West Kazakhstan Region, Kazakhstan
3	SV-J132	2014	ZhaikMunai LLP	ZhaikMunai LLP	Fuel Gas Reciver Packaged Unit	1 No.	Zhaikmunai CGTU-3	West Kazakhstan Region, Kazakhstan
4	SV-J133	2014	ZhaikMunai LLP	ZhaikMunai LLP	Closed Drain Packaged Unit	1 No.	Zhaikmunai CGTU-3	West Kazakhstan Region, Kazakhstan
5	SV-J134	2014	ZhaikMunai LLP	ZhaikMunai LLP	Buffer Vessel Packaged Unit	1 No.	Zhaikmunai CGTU-3	West Kazakhstan Region, Kazakhstan
6	SV-J217	2016	ZhaikMunai LLP	ZhaikMunai LLP	Drain Tank for Buffer Vessel Unit	1 No.	Zhaikmunai CGTU-3	West Kazakhstan Region, Kazakhstan
7	SV-J253-01	2018	Enter Engineering	Uzliti Engineering JV LLC	Formation Water Degassing Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
8	SV-J253-02	2018	Enter Engineering	Uzliti Engineering JV LLC	Produced Water Degassing Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
9	SV-J253-03	2018	Enter Engineering	Uzliti Engineering JV LLC	Degasser Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
10	SV-J253-04	2018	Enter Engineering	Uzliti Engineering JV LLC	Unstable Condensate Degasser Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
11	SV-J253-05	2018	Enter Engineering	Uzliti Engineering JV LLC	Unstable Condensate Separation Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
12	SV-J253-06	2018	Enter Engineering	Uzliti Engineering JV LLC	Saturated DEG & Condensate Splitter Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
13	SV-J253-07	2018	Enter Engineering	Uzliti Engineering JV LLC	High Pressure Flare KOD Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
14	SV-J253-08	2018	Enter Engineering	Uzliti Engineering JV LLC	Low Pressure Flare KOD Unit	1 No.	CCGT Plant, Akchalak Field, Uzbekistan	Uzbekistan
15	SV-J266	2018	Tengizchevroil LLP	Tengizchevroil LLP	Portable water booster pump unit, Tag No. 45-PO-40B01 & 45-PU-40B01	1 No.	Future Growth Project	Atyrau, Kazakhstan



## Sewon-Vertex Heavy Industry LLP

### List for Storage Tanks

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Roof Type	Material	Design		Size in mm			Capacity	Weight in Ton
												Pressure	Temp.	Inner Dia	Thk	Height		
1	SV-J090	2012	CB & I Europe B.V	Tengizchevroil LLP	Sour Water Storage Tank - 62-T-802	1	SGP Critical Tank Sparing EPC Project	Tengiz, Kazakhstan	API 650 / API 620	Dome	SA516 Gr.70 N	-4.8 /+400 mbar	-40 / +90	18000	16,14,12,10	15000	3824m <sup>3</sup>	98.24
2	SV-J090	2012	CB & I Europe B.V	Tengizchevroil LLP	Off Spec Oil Storage Tank - 64-T-201	1	SGP Critical Tank Sparing EPC Project	Tengiz, Kazakhstan	API 650 / API 620	Dome	SA516 Gr.70 N	-4.8 /+400 mbar	-40 / +90	30000	24,22,18,16,13	16000	11328m <sup>3</sup>	302.64
3	SV-J103	2013	Imtech-Bolashak LLP	Tengizchevroil LLP	Feed Water Tank - 0-4730-T-031	1	Tengiz Water Recycling Facility	Tengiz, Kazakhstan	API 650	Cone	SA516 Gr.70 N	-0.25 kPa/ATM	-40 / +75	6600	8, 6	7000	200m <sup>3</sup>	17.52
4	SV-J103	2013	Imtech-Bolashak LLP	Tengizchevroil LLP	Recycled Water Tank - 0-4730-T-032	1	Tengiz Water Recycling Facility	Tengiz, Kazakhstan	API 650	Cone	SA 240 316L	-0.25 kPa/ATM	+5 / +60	4000	8, 6	7000	87m <sup>3</sup>	6.55
5	SV-J103	2013	Imtech-Bolashak LLP	Tengizchevroil LLP	Backwash Water Tank - 0-4730-T-034	1	Tengiz Water Recycling Facility	Tengiz, Kazakhstan	API 650	Cone	SA516 Gr.70 N	-0.25 kPa/ATM	-40 / +75	6600	8, 6	7000	210m <sup>3</sup>	17.52
6	SV-J103	2013	Imtech-Bolashak LLP	Tengizchevroil LLP	GAC Water Tank - 0-4730-T-045	1	Tengiz Water Recycling Facility	Tengiz, Kazakhstan	API 650	Cone	SA516 Gr.70 N	-0.25 kPa/ATM	-40 / +75	10500	8, 6	9000	780m <sup>3</sup>	42.10
7	SV-J141	2014	Montazspetsstroy LLP	Maersk Oil Kazakhstan GmbH	Vertical Tank-100m3	2	General Arrangement of Drain Tank	Mangystau Region, Kazakhstan	GOST	Cone	09G2S-12	2.0 KPa	-16 / +40	4730	6	6600	100m <sup>3</sup>	5.60
8	SV-J180	2015	Bechtel	Tengizchevroil LLP	Fixed Roof Tank Component Fabrication	1	Crude Shipment Capacity Project	Tengiz, Kazakhstan	API 650	Cone	SA516 Gr.70N S5 HICR	12.5/2.5 MBARG	-40 / +90	48000	23.8 / 18 / 15 / 12 / 8.9 / 8	18000	30000m <sup>3</sup>	600
9	SV-J181	2015	Bechtel	Tengizchevroil LLP	Floating Roof Pontoon Shop Assembly	3	Crude Shipment Capacity Project	Tengiz, Kazakhstan	API 650	Flat floating type	SA516 Gr.70N S5 HICR	12.5/2.5 MBARG	-40 / +90	61500	26 / 20 / 15 / 12 / 8.9 / 8	17000	50,000m <sup>3</sup>	900
10	SV-J222	2016	KPJV Limited	Tengizchevroil LLP	Acetic Acid Storage Tank - 43-T-9910	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	API 650 Ed.2011 + Add	Cone	SA 240 Gr.316L	20 / 3 mbar.g	-40/75	4500	8	9000	143m <sup>3</sup>	10.9
11	SV-J222	2016	KPJV Limited	Tengizchevroil LLP	MEA Storage Tank - 43-T-9914	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	API 650 Ed.2011 + Add	Cone	SA 240 Gr.316L	20 / 3 mbar.g	-40/75	4000	8	4500	56,5m <sup>3</sup>	7
12	SV-J-222	2016	KPJV Limited	Tengizchevroil LLP	Raw Water Buffer Tank - 43-T-9118.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	API 650 Ed.2011 + Add	Cone	SA516 Gr.70N	6 / 3 mbar.g	-40/75	4000	8	7200	90.4m <sup>3</sup>	8.8
13	SV-J-222	2016	KPJV Limited	Tengizchevroil LLP	Filtered Water Tank - 43-T-9119.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	API 650 Ed.2011 + Add	Cone	SA516 Gr.70N	6 / 3 mbar.g	-40/75	3300	8	7200	62m <sup>3</sup>	8.3
14	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Storage Tank for Diesel - CSF-16-TA-20 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	8500	8	7500	400m <sup>3</sup>	40
15	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Fire Water Storage Tank - CSF-20-TA-01 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	7500	8	9600	370m <sup>3</sup>	36
16	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Waste Water Holding Tank - WTF-12-TA-10 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +80	7580	8	7500	300m <sup>3</sup>	30
17	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Treated Waste Water Tank - WTF-12-TA-30	1	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	7580	8	7500	300m <sup>3</sup>	30
18	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Water Storage Tank for Fire Fighting - WTF-20-TA-01 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	7580	8	7500	300m <sup>3</sup>	30
19	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Domestic Water Storage Tank - ATS-10-TA-01 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	6630	8	6000	200m <sup>3</sup>	25
20	SV-J-232	2017	Kazpaco LLP	Tengizchevroil LLP	Raw Water Tank - DWP-10-TA-10 A/B	2	Cargo Transportation Route for Facilities of the North-Eastern Part of the Caspian Sea	Prorva, Kazakhstan	SN RK 3.05-24-2004	Cone	09G2S-12 GOST 19281-89	0.002 Mpa	-40 / +100	6690	8	6000	200m <sup>3</sup>	25
21	SV-J-284	2020	ISKER CONSORTIUM LLP	Tengizchevroil LLP	MAKE UP WATER TANK/Glycol tank -50-T-7608-52 & 50-T-7634-52	2	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	GOOD ENGINEERING PRACTICE	Cone	09G2S-8 GOST 5520-2017	0.0006 Mpa	75	2000	8	2867	6.7m <sup>3</sup>	3.3



## Sewon-Vertex Heavy Industry LLP

### List for Storage Tanks (Site Work)

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Roof Type	Material	Design		Size in mm			Capacity	Weight in Ton
												Pressure	Temp.	Inner Dia	Thk	Height		
1	SV-J232	2017	KAZPACO	KAZPACO	Storage Tank for Diesel, CSF-16-TA-20-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-12	0,002 Mpa	-40/+100	8500	8	7500	400	45
2	SV-J232	2017	KAZPACO	KAZPACO	Fire Water Storage Tank, CSF-20-TA-01-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-13	0,002 Mpa	-40/+100	7500	8	9600	370	40
3	SV-J232	2017	KAZPACO	KAZPACO	Waste Water Holding Tank, WTF-12-TA-10-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-14	0,002 Mpa	-40/+80	7580	8	7500	300	35
4	SV-J232	2017	KAZPACO	KAZPACO	Treater Waste Water Tank, WTF-12-TA-30	1	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-15	0,002 Mpa	-40/+80	7580	8	7500	300	35
5	SV-J232	2017	KAZPACO	KAZPACO	Water Storage Tank, WTF-20-TA-01-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-16	0,002 Mpa	-40/+80	7580	8	7500	300	35
6	SV-J232	2017	KAZPACO	KAZPACO	Domestic Water Storage Tank, ATS-10-TA-01-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-17	0,002 Mpa	-40/+80	6630	8	6000	200	30
7	SV-J232	2017	KAZPACO	KAZPACO	Raw Water Tank, DWP-10-TA-10-A/B	2	Prorva Project	Atyrau, Kazakhstan	SN-RK 3.05-24.-2004	Cone	09G2S-18	0,002 Mpa	-40/+80	6690	8	6000	200	30



## Sewon-Vertex Heavy Industry LLP

### List for Rectangular Tanks

S.No.	Job.No.	Year	Client Name	End User Name	Equipment Description	Qty.	Project Description	Location	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
											Pressure	Temp.	Inner Dia	Thk	Height		
1	SV-J142	2014	KPJV Limited	Tengizchevroil LLP	Rectangular Portable Water	11	Future Growth Project Mechanical General Arrangement 3GP & 3GI SIP's Potable Water Storage Tank	Tengiz, Kazakhstan	Good Engineering Practice / ROAK & Young	SA240 Gr.304	ATM	-45 / +75	2500 / 2250	8 / 6	2400	11.25m³	32.25
2	SV-J-167	2015	Tengizchevroil LLP	Tengizchevroil LLP	Drain Tank 63-F-9182	1	SGP Water Handling Upgrade	Tengiz, Kazakhstan	Good Engineering Practice	SA240 Gr.316	0	-40/60	2500/3000	8	800	5m³	2.5
3	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	PBF Cooling System Drain Tank - 41-T-9223	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan	Good Engineering Practice and Roark & Young for Strength Calculation	SA516 Gr.70N	20/-3	-40/100	1250/2200	13	3500	9.6m³	4.5
4	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	PBF ASD Chilling System Drain Tank - 41-T-9224	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/85	1250/2200	13	3500	9.6m³	4.5
5	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Cooling Water Drain Tank - 42-T-9221	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/100	1250/2200	13	3500	9.6m³	4.5
6	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	3GP ASD Chilling System Drain Tank - 42-T-9225	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/85	1250/2200	13	3500	9.6m³	4.5
7	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9129.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	0	-40/80	1250/2200	13	3500	9.6m³	4.5
8	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9129.2	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
9	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9129.3	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
10	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9219.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/80	1250/2200	13	3500	9.6m³	4.5
11	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9219.2	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
12	SV-J-222	2018	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9219.3	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
13	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 43-T-9233	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/80	1250/2200	13	3500	9.6m³	4.5
14	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Waste Oil Holding Tank - 45-T-1001	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	0	-40 / 75	1100/2000	13	4000	8,8m³	4.6
15	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Utility Area Glycol Water Tank 45-T-9231	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/100	1250/2200	13	3500	9,6m³	4.5
16	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Waste Oil Holding Tank - 47-T-1002.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	0	-40 / 75	1100/2000	13	4000	8,8m³	4.6
17	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Waste Oil Holding Tank - 47-T-1002.2	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						8,8m³	4.6
18	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Compressor Area Glycol Water Tank - 47-T-9232.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/100	1250/2200	13	3500	9.6m³	4.5
19	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Compressor Area Glycol Water Tank - 47-T-9232.2	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
20	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 52-T-9403.1	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/80	1250/2200	13	3500	9.6m³	4.5
21	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 52-T-9403.2	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
22	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 52-T-9403.3	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5
23	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 52-T-9403.4	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N	20/-3	-40/80	1250/2200	13	3500	9.6m³	4.5
24	SV-J-222	2019	KPJV Limited	Tengizchevroil LLP	Glycal Water Drainage Tank - 52-T-9403.5	1	Future Growth Project / Welhead Pressure Management Project	Tengiz, Kazakhstan		SA516 Gr.70N						9.6m³	4.5



## Sewon-Vertex Heavy Industry LLP

### List for Pig Launchers and Receivers

S.No.	Year	Client Name	Equipment Description	Qty.	Project Description	Design Code	Material	Design		Size in mm			Capacity	Weight in Ton
								Pressure	Temp.	Inner Dia	Thk	Height		
1	2008	Petro Gas, Dubai	Pig Launcher / Receiver 30"x36"	2	NPF TRUNKLINE AND TWO SUB SEA PIPELINES CASPIAN SEA Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 60	50 Barg	-42 / +43	750 / 900	6 / 7.2	7310	4.24m3	0.99
2	2008	Petro Gas, Dubai	Pig Launcher / Receiver 20"x24"	2	NPF TRUNKLINE AND TWO SUB SEA PIPELINES CASPIAN SEA Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 60	50 Barg	-42 / +43	500 / 600	4 / 5	6360	1.52m3	1.63
3	2008	Petro Gas, Dubai	Pig Launcher / Receiver 18"x22"	2	NPF TRUNKLINE AND TWO SUB SEA PIPELINES CASPIAN SEA Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 60	50 Barg	-42 / +43	450 / 550	3.5 / 4	6350	1.11m3	0.45
4	2009	Zeromax, Uzbekistan	Pig Launcher / Receiver 42"x48"	6	Uzbekistan-China Pipeline Project	ASME SEC VIII DIV.1	API 5L X 70	50 Barg	-20 / +80	1028.8 / 1149	40 / 40	9000	8.92m3	1.92
5	2010	NCG Services Co. Ltd.	Pig Launcher / Receiver 8"x12"	2	EPIC of Submarine pipelines Project, Dragon Oil Limited	ASME SEC VIII DIV.1	API 5L X 52, PLS2	50 Barg	-20 / +85	200 / 300	6.4 / 8.7	4900	0.26m3	0.31
6	2010	NCG Services Co. Ltd.	Pig Launcher / Receiver 14"x18"	2	EPIC of Submarine pipelines Project, Dragon Oil Limited	ASME SEC VIII DIV.1	API 5L X 52, PLS2	50 Barg	-20 / +85	350 / 450	8.7 / 10.3	5100	0.48m3	0.65
7	2010	NCG Services Co. Ltd.	Pig Launcher / Receiver 8"x12"	2	EPIC Blocl-1 Project for Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 52	50 Barg	-29 / +110	200 / 300	12.7 / 12.7	3203	0.163m3	0.858
8	2010	NCG Services Co. Ltd.	Pig Launcher / Receiver 18"x22"	2	EPIC Blocl-1 Project for Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 52	50 Barg	-29 / +110	450 / 550	19.05 / 19.05	4158	0.769m3	2.21
9	2010	NCG Services Co. Ltd.	Pig Launcher / Receiver 20"x24"	2	EPIC Blocl-1 Project for Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 52	50 Barg	-29 / +110	500 / 600	20.62 / 20.62	4308	0.969m3	2.69
10	2010	Petro Gas, Dubai	Scraper Launching Barrel 30"x36"	2	New Processing and Storage Facility Expansion Project Phase - II Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 65	50 Barg	-15 / +85	750 / 900	6 / 7	7520	4.11m3	1.72
11	2010	Petro Gas, Dubai	Scraper Launching Barrel 20"x24"	2	New Processing and Storage Facility Expansion Project Phase - II Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 65	50 Barg	-15 / +85	500 / 6003	4 / 5	6360	1.52m3	0.69
12	2010	Petro Gas, Dubai	Scraper Launcher Barrel 18"x22"	2	New Processing and Storage Facility Expansion Project Phase - II Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 65	50 Barg	-15 / +85	450 / 550	3.6 / 4.4	6350	1.26m3	0.62
13	2011	NCG Services Co. Ltd.	Pig Receiver with pig handling system 10"x14"	2	EPIC of Block-4 Riser Platform and future risers, Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L X 52, PLS2	50 Barg	-25 / +110	250 / 350	12.7 / 12.7	3330	0.2	2.1
14	2012	Momentum Eng.	Pig Launcher 18"x22"	1	EPIC of Submarine Pipeline 18" (Lam Block) & 20" (Block 1, Block 2), Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	450 / 550	12.7 / 12.7	3408	0.68m3	1.76
15	2012	Momentum Eng.	Pig Receiver 24"x20"	1	EPIC of Submarine Pipeline 18" (Lam Block) & 20" (Block 1, Block 2), Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	500 / 600	12.7 / 12.7	3408	0.819m3	1.82
16	2012	Momentum Eng.	Pig Launcher 18"x14" with Pig Signaler	2	EPIC of Block-4 Submarine Pipeline and associated resers. Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	350 / 450	12.7 / 12.7	3300	0.37m3	1.32
17	2012	Momentum Eng.	Pig Launcher 14"x10" with Pig Signaler	2	EPIC of Block-4 Submarine Pipeline and associated resers. Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	250 / 350	12.7 / 12.7	3250	0.21m3	0.98
18	2012	Momentum Eng.	Pig Receiver 18"x14" with Pig Signaler	2	EPIC of Block-4 Submarine Pipeline and associated resers. Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	350 / 450	12.7 / 12.7	3300	0.37m3	1.32
19	2012	Momentum Eng.	Pig Receiver 14"x10" with Pig Signaler	1	EPIC of Block-4 Submarine Pipeline and associated resers. Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60 PSL2	50 Barg	-25 / +110	250 / 350	12.7 / 12.7	3250	0.21m3	0.98
20	2013	Sarmat Energy	Pig Launcher 10"x8" with Pig Handling system and pig signaler	1	New MP Pipeline Turkmenoil Tasbulat, Kazakhstan	ASME SEC VIII DIV.1	SA 106 Gr.B	40 Barg	-36 / +100	273 / 219	11.1 / 9.5	4340	0.174m3	0.8
21	2013	Sarmat Energy	Pig Receiver 10"x 8" with Pig Handling system and pig signaler	1	New MP Pipeline Turkmenoil Tasbulat, Kazakhstan	ASME SEC VIII DIV.1	SA 106 Gr.B	40 Barg	-36 / +100	273 / 219	11.1 / 9.5	4340	0.174m3	0.8
22	2014	NCG Overseass Ltd.	Pig Launcher 14"x 18" with QOC & Pig Signaler & Pig Handling System	1	EPIC Wellhead Platform LAM-E with associated Pipelines, Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60	50 Barg	-29 / +85	350 / 450	27 / 27	4981	0.56m3	2.5
23	2014	NCG Overseass Ltd.	Pig Launcher 10"x14" with QOC & Pig Signaler & Pig Handling System	1	EPIC Wellhead Platform LAM-E with associated Pipelines, Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60	50 Barg	-29 / +85	250 / 350	23.83 / 23.83	4930	0.31m3	1.82
24	2014	Zhaikmunai LLP	Pig Launcher 8" x 6" with QOC	1	N-E Tournaisain reservoir-Gas Lift Compressor Facility & Gas Lift Distributive system construction	ASME 31.3 / ASME SEC VIII DIV.1	SA333 Gr.6	140 Barg	-42 / +43	200 / 150	18.26 / 18.26	1000	0.2m3	1.9
25	2014	Zhaikmunai LLP	Pig Receiver 8" x 6" with QOC	1	N-E Tournaisain reservoir-Gas Lift Compressor Facility & Gas Lift Distributive system construction	ASME 31.3 / ASME SEC VIII DIV.1	SA333 Gr.6	140 Barg	-42 / +43	200 / 150	18.26 / 18.26	1000	0.16m3	1.65
26	2016	NCG Overseass Ltd.	Pig Receiver 14"x 18" with QOC & Pig Signaler	1	EPIC Wellhead Platform LAM-E with associated Pipelines, Dragon Oil, Turkmenistan	ASME SEC VIII DIV.1	API 5L Gr.X 60	50 Barg	-29 / +85	350 / 450	26.97/26.97	4981	0.55m3	2.79
27	2019	KARACHAGANAK PETROLEUM OPERATING B.V.N	Pig Launcher 26"x 30" with QOC & Pig Signaler - (ITEM NO.: 5-190-VL-02)	1	KPC GAS DEBOTTLENECKING PROJECT PIPELINE FOR KPC TO UNIT 3	ASME B31.8 ED 2016 +ROK+VSN 51-3-85	SA 350 Gr. LF6 CL2 (NACE)	97 Barg	-45 / +75	662/760	24/26	3425	3.44m3	11.77
28	2019	KARACHAGANAK PETROLEUM OPERATING B.V.N	Pig Receiver 26"x 30" with QOC & Pig Signaler - (ITEM NO.: 4-190-VR-52)	1	KPC GAS DEBOTTLENECKING PROJECT PIPELINE FOR KPC TO UNIT 3	ASME B31.8 ED 2016 +ROK+VSN 51-3-85	SA 350 Gr. LF6 CL2 (NACE)	97 Barg	-45 / +75	662/760	24/26	3425	4.41m3	14.264





## Sewon-Vertex Heavy Industry LLP

### List for Repair Jobs

S.No.	Job.No.	Year	Client Name	Project Description	Scope of work	Material specificaton	Qty (unit)	Qty.	Delivery Location
1	SV-J036	2011	KCA DEUTAG Drilling GmbH	----	Repair / Modification of Man Basket	GOST 09G2S	no.	1	DDP Bautino
2	SV-J043	2012	Nabors Drilling International Ltd.	----	Mast repair	CS	no.	1	DDP Almaty
3	SV-J065	2012	Schlumberger Logelco Inc.	---	Repair of Surge tank	GOST 09G2S	no.	1	DDP Schlumberger base
4	SV-J074	2012	Maersk Oil Kazakhstan GmbH	Dunga Field Development	Repair of V-201 second stage separator	GOST 09G2S	no.	1	DDP Maersk base
5	SV-J080	2012	Saipem Kazakhstan Branch	KZ024168 Agip KCO Hook up 2011-2012	Repair of peroni's dampeners in workshop ASME "R" Stamp	SA20TP316	nos.	10	EXW Sewon Vertex base
6	SV-J114	2013	Oil Test Control Kazakhstan LLP	---	Underground Tank repair	ST3PS	nos.	2	EXW Sewon Vertex base
7	SV-J119	2013	Rigmarine Kazakhstan LLP	----	Container repair	CS	no.	1	EXW Sewon Vertex base
8	SV-J136	2014	Bureau Veritas	----	Container repair	CS	no.	1	EXW Sewon Vertex base
9	SV-J159	2014	Transport Aktau	---	Tank repeer	GOST 09G2S	nos.	2	EXW Sewon Vertex base
10	SV-J174	2015	Isker KazStroyService	Kashagan Field Development	Refurbishing of Vessel	S355NL EN10025-3	no.	1	EXW Sewon Vertex base
11	SV-J274	2019	IDESA	Tengizchevroil LLP	FLARE KO DRUM-TRAIN -2 NOZZLE ALTERATION & TOUCH PAINT WORK	SA 240M TY 316L+SA 182M F316L+ SA 312M TP 316L+ SA 403M WP 316L	no.	1	DDP ATRAYU, KAZAKHSTAN



## Sewon-Vertex Heavy Industry LLP

### List for ERS AI Caspian Contractor LLC

S.No.	Job.No.	Year	Client Name	Project Description	Scope of work	Unit	QTY.	Material Grade	Size in mm			Capacity
									Width / Inner dia	Thk	Length	
1	SV-J003	2011	Saipem Kazakhstan Branch	16/9 Cylinder Gas Baskets	Design Engineering, Procurement and fabrication of Cylinder Gas Basket	nos.	19	S355NL EN10025-3				
2	SV-J006	2011	ERSAI Caspian Contractor LLC	E68141 SSPA EPC 2-3-4	Bending of Rectangular Hollow Section	nos.	34	S235JO	100	5	7854	
3	SV-J010	2011	ERSAI Caspian Contractor LLC	E68124 Offshore Hook up Module Assembling	Face Machining	no.	1 Lot	A350 LF2 / A182 F316				
4	SV-J012	2011	ERSAI Caspian Contractor LLC	E68147 Hook up 2011/2012 Scope	16/9 Baskets together with sling set	Nos.	80	S355NL EN10025-3				
5	SV-J026	2011	ERSAI Caspian Contractor LLC	E68148 Daewoo Zhambyl Drilling Barge Rig	Supply of Conical Plug	nos.	200	S355J2 / ST3				
6	SV-J035	2011	Saipem Kazakhstan Branch	KZ024168 Agip KCO Hook-up 2011-2012 Scope	Waste Disposal Container	nos.	20	S355NL EN10025-3	2000	8/6	3730	5.4 m <sup>3</sup>
7	SV-J038	2011	ERSAI Caspian Contractor LLC	E76038 Kuriyk Facilities 2011	Rolled and welded Shell barrels for Piles	nos.	270	S275J0 / ST4SP	1371	35	2500	
8	SV-J041	2011	Saipem Kazakhstan Branch	KZ024168 Agip KCO Hook-up 2011-2012 Scope	Supply of Diesel Tanks	nos.	10	ST3PS	972	6	972	0,5m <sup>3</sup>
8a	SV-J041	2011	Saipem Kazakhstan Branch	KZ024168 Agip KCO Hook-up 2011-2012 Scope	Supply of Diesel Tanks	nos.	10	ST3PS	1100	6	1100	1 m <sup>3</sup>
9		2012	Saipem Kazakhstan Branch	KZ016410 DEMOB.IMP.401-402 Kashagan	Supply of structural steel	nos.	1980	ST3PS				
10	SV-J066	2012	ERSAI Caspian Contractor LLC	E68148 Daewoo Zhambyl Drilling Barge Rig	Machining of Togglepin	LS.	1	ST3PS				
11	SV-J116	2013	Saipem Kazakhstan Branch	KT016410 DEMOB.IMP.401-402 Kashagan	Supply of structural steel	Nos.	600	ST3PS	60	2	2250	
11a	SV-J116	2013	Saipem Kazakhstan Branch	KT016410 DEMOB.IMP.401-402 Kashagan	Supply of structural steel	Nos.	600	ST3PS	80	4.5	100	
12	SV-J127	2013	ERSAI Caspian Contractor LLC	E68855 Yard Works	Inclined ladder section	Nos.	72 Nos.	ABS Gr.A	500	5	1067	
12a	SV-J127	2013	ERSAI Caspian Contractor LLC	E68855 Yard Works	Inclined ladder section	Nos.		ABS Gr.A	455	5	1105	
12b	SV-J127	2013	ERSAI Caspian Contractor LLC	E68855 Yard Works	Inclined ladder section	Nos.		ABS Gr.A	455	5	1105	
12c	SV-J127	2013	ERSAI Caspian Contractor LLC	E68855 Yard Works	Inclined ladder section	Nos.		ABS Gr.A	485	5	1105	
13	SV-J135	2014	Saipem Kazakhstan Branch	KT016410 DEMOB.IMP.401-402 Kashagan	Supply of structural steel	Nos.	600	ST3PS	40	4.5	100	
13a	SV-J135	2014	Saipem Kazakhstan Branch	KT016410 DEMOB.IMP.401-402 Kashagan	Supply of structural steel	nos.	300	ST3PS	60	2	2250	
14	SV-J137	2014	ERSAI Caspian Contractor LLC	E68169 SSPA Astrakhan Trunk Line Project	Section Rolling	nos.	6	ST3PS				
15	SV-J166	2015	ERSAI Caspian Contractor LLC	E68176 TCO Future Growth & WPM Project KZ	CYLINDER BASKET FOR PRODUCTION USAGE	nos.	50	S355J2H ans S355NL EN10025-3	1286		2014	
16	SV-J169	2015	ERSAI Caspian Contractor LLC	E68174 Agip KCO Installation of Pipelines	ROLLING OF PLATES FOR FABRICATION OF CONE	nos.	2	17G1S				
17	SV-J173	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	Rolling of plates for Ersai 1 Stinger	nos.	37	ST3PS				
18	SV-J179	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	Structural pipes for 1 Stringer	No.	1	17G1S				
19	SV-J183	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	Sow Rolling Pipe fo Crane Column	Lot	1	ST3PS	840	20	2100	



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### List for ERSAI Caspian Contractor LLC

S.No.	Job.No.	Year	Client Name	Project Description	Scope of work	Unit	QTY.	Material Grade	Size in mm			Capacity
									Width / Inner dia	Thk	Length	
20	SV-J185	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	SERVICE FOR ROLLING OF PLATES	nos.	6	S355NL EN10025-3				
21	SV-J188	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	SERVICE FOR ROLLING OF PLATES	nos.	12	S355NL EN10025-3	917	25	1000	
21a	SV-J188	2015	ERSAI Caspian Contractor LLC	E68174 NCOC Installation of Pipelines	SERVICE FOR ROLLING OF PLATES	nos.	12	S355NL EN10025-3	857	25	1000	
22	SV-J192	2015	ERSAI Caspian Contractor LLC	KT016800 Rigless Intervent Campaign on A-Island	Supply of steel structural Materials	nos.	360	ST3PS	80	4.5	100	
22a	SV-J192	2015	ERSAI Caspian Contractor LLC	KT016800 Rigless Intervent Campaign on A-Island	Supply of steel structural Materials	nos.	360	ST3PS	60	2	2250	



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#### Site Work

S.No.	Job.No.	Year	Client Name	End User Name	Project Description	Scope of work	Design Code	Material specification	Qty (unit)	Qty.	Site Location	Remarks
1	SV-J050	2012	ERSAI Caspian Contractor LLC (SAIPEM)	AGIP KCO	E68124 Kashagan Offshore Hook-up Module Assembling	Air cooler bundle flange weld over lay repair and National Board "R" Stamp for Nozzle 8" WNRJT 2500# .Thk-29mm -16 nos and 10" WNRJT 1500#, Thk-21mm - 8nos.	ASME SEC VIII DIV.2 2010 Edition 2011 addenda	ASME SB425 UNS NO8825	nos.	24	Kuryk, Aktau,Kazakhstan	
2	SV-J214	2016	ZhaikMunai LLP	ZhaikMunai LLP	CGTU-3 Complex Gas Treatment Plant	Finger Type Slug Catcher Site assembly, Welding, NDT, Hydro test and ASME "U" Stamp and Register in National Board	ASME SEC VIII DIV I Ed 2013	SA516Gr.70N	nos.	1	Chenarvskoye field,Ural'sk, West Kazakhstan Region, Kazakhstan	